AMSAT News Service Weekly Bulletins
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AMSAT NEWS SERVICE
ANS-149

The AMSAT News Service bulletins are a free, weekly news and information service of AMSAT, The Radio Amateur Satellite Corporation. ANS publishes news related to Amateur Radio in Space including reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

The news feed on http://www.amsat.org publishes news of Amateur Radio in Space as soon as our volunteers can post it.

Please send any amateur satellite news or reports to: ans-editor [at] amsat.org

You can sign up for free e-mail delivery of the AMSAT News Service Bulletins via the ANS List; to join this list see: https://mailman.amsat.org/postorius/lists/ans.amsat.org/

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ANS-149 AMSAT News Service Weekly Bulletins

To: All RADIO AMATEURS
From: Radio Amateur Satellite Corporation
712 H Street NE, Suite 1653
Washington, DC 20002

DATE 2022 May 29

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Mark Hammond, N8MH
Bruce Paige, KK5DO
Paul Stoetzer, N8HM

Further, up to two Alternate Directors may be elected for one-year terms.

A valid nomination for Director must be written and requires either one Member Society or five current individual members in good standing to nominate an AMSAT member. Written nominations, with the nominee's name, call sign, and contact information, as well as the nominators' names, call signs, and contact information, should be sent to the Acting AMSAT Secretary:

Paul Stoetzer, N8HM
201 I St SW Apt V336
Washington, DC 20024 USA

E-mail nominations may be sent to pstoetzer at amsat.org.

The AMSAT bylaws require that the nomination be written and in the form specified by the Secretary. The Acting Secretary has elected to accept written nomination materials via mail or in electronic form, including e-mail or electronic image of a paper document. Fax transmissions cannot be accepted.

No matter what means are used, petitions MUST be received by the Acting Secretary no later than June 15th. The Acting Secretary will verify the qualifications of candidates and nominating members or Member Societies as petitions are received, and will notify candidates whether their nominations are in order by the end of June.

[ANS thanks Paul Stoetzer, N8HM, AMSAT Executive Vice President and Acting Secretary for the above information]

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* Progress Report: Curriculum Development to Accompany the AMSAT CubeSat Simulator - Paul Graveline, K1YUB, Alan Johnston, KU2Y, Frederic Raab, KK6NOW, Mark Samis, KD2XS, David White, WD6DRI
* An EZ Lindenblad for UHF - Grant Zehr, AA9LC, Tom Planer, KJ9P
* STEM Presentation to Bear Valley Elementary - Craig Bledsoe, KL7H
* AMSAT-LU WSPR Beacon to Antarctica - AMSAT Argentina, LU7AA

[ANS thanks AMSAT for the above information]

Second ARISS Interoperable Radio System Installed On-Board ISS

On May 25, 2022, Roscosmos cosmonaut Oleg Artemyev installed new amateur radio equipment on the Russian segment of the International Space Station (ISS) – a Kenwood TM-D710GA transceiver. The transceiver was delivered on February 17, 2022 on the Progress MS-19 cargo ship. Artemyev successfully dismantled the old amateur radio equipment and installed the new equipment. Tests are expected in the coming days.

[ANS thanks R4UAB for the above information]

Changes to the AMSAT TLE Distribution for May 26, 2022

The following satellite has been added to this week's AMSAT-NA TLE distribution:

OreSat0 NORAD Cat ID 52017 (per Space-Track).

The following satellite has decayed from orbit and has been removed from this week's AMSAT-NA TLE distribution:

GASPACS NORAD Cat ID 51439 (decayed from orbit on 5/22/2022 per Space-Track).

[ANS thanks Ray Hoad, WA5QGD, AMSAT Orbital Elements Manager for the above information]

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and control of complete satellite systems.

The INSPIRE-SAT 7 2U CubeSat embeds the following missions: 1) To provide a flight platform with functionalities open to ham radio community. An amateur radio payload (SPINO), which is a versatile telecommunication solution suitable for CubeSat will be available. Operating in UHF and VHF bands, it features tight integration with amateur radio service and the worldwide amateur radio community. The SPINO board features functions dedicated to the amateur radio community with a versatile digital transponder and a digital mailbox service. SPINO will be available in parallel of other mission according to the power budget. The goal is to make it accessible at least 30% of the time.

SPINO is supported by the joint efforts of two nonprofit organizations: AMSAT-Francophone (http://site.amsat-f.org) and the hackerspace Electrolab (http://electrolab.fr/). SPINO operates in the Amateur Radio service bands, and features two full transceivers: - VHF: TX (+30 dBm) and RX 144–146 MHz, - UHF: TX (+30 dBm) and RX 430–440 MHz. SPINO will only work with VHF TX and UHF RX on this mission. 2) To provide the same FM audio transponder as the one used in the UVSQ-SAT mission, and open to ham radio community. The FM transponder will be available in parallel of other mission according to the power budget. This system will be accessible at least twice a month (UVSQ-SAT feedback). 3) Technology demonstration with miniaturized sensors for Earth, Sun and ionospheric observations. 4) Earth observation for climate purpose, Sun observation for solar physic purpose, Ionospheric observations for space weather and radiocommunication. All transmitted data will be used as open access. They will be used for pedagogic activities (STEM (science, technology, engineering, and mathematics), licence pro SIMIS of UVSQ students, Master NewSpace for Paris Saclay students open in 2021, etc.). The satellite will be used for education purpose (hardware/software developments and trainings to satellite operations). Software to capture and performed data interpretation will be provided (aka UVSQ-SAT decoder). Twitter account available: twitter.com/uvsqsat

Proposing a V/U FM transponder with BPSK AX25 telemetry at 9k6bps. Planning a launch from Vandenberg in Dec 2022 into a 550km polar orbit.

A downlink for telemetry on 437.410 MHz and for the SPINO payload a downlink on 435.200 MHz with uplink on 145.830 MHz have been coordinated

[ANS thanks the IARU for the above information]

ARISS News

Scheduled ARISS Contacts

Students and employees of SWGU, Kursk, Russia, direct via TBD

The ISS callsign is presently scheduled to be RSØISS
The downlink frequency is presently scheduled to be 145.800 MHz
The scheduled crewmember is Oleg Artemyev

Contact is go for Sun 2022-05-29 15:00 UTC

Amur State University, Blagoveshchensk, Russia, direct via TBD

The ISS callsign is presently scheduled to be RSØISS
The downlink frequency is presently scheduled to be 145.800 MHz
The scheduled crewmember is Oleg Artemyev
Contact is go for Tue 2022-05-31 08:50 UTC

Old St. Mary's School, Chicago, Illinois, multi-point telebridge via ON4ISS

The ISS callsign is presently scheduled to be TBD
The downlink frequency is presently scheduled to be 145.800 MHz
The scheduled crewmember is Bob Hines KI5RQT(***)
Contact is go for: Tue 2022-05-31 16:32:31 UTC 81 deg
Watch for Livestream at https://www.osmschool.com/

Moscow Autonomous Educational Institution "Lyceum - Engineering Center",
Kazan, Russia, direct via TBD

The ISS callsign is presently scheduled to be RSØISS
The downlink frequency is presently scheduled to be 145.800 MHz
The scheduled crewmember is Sergey Korsakov

Contact is go for Thu 2022-06-02 13:30 UTC

Istituto Comprensivo “Losapio–S.F. Neri”, Gioia del Colle, Puglia, Italy,
direct via IZ7RTN

The ISS callsign is presently scheduled to be IRØISS
The downlink frequency is presently scheduled to be 145.800 MHz
The scheduled crewmember is Samantha Cristoforetti IZØUDF

Contact is go for: Sat 2022-06-04 11:43:46 UTC 64 deg

Matinecock District, Suffolk County NY Boy Scouts, Medford, NY, telebridge
via AB1OC

The ISS callsign is presently scheduled to be TBD
The downlink frequency is presently scheduled to be 145.800 MHz
The scheduled crewmember is Kjell Lindgren KO5MOS
Contact is go for: Sat 2022-06-04 17:56:25 UTC 53 deg

Bauman Moscow State Technical University, Moscow, Russia, direct via TBD
(***)

The ISS callsign is presently scheduled to be RSØISS
The downlink frequency is presently scheduled to be 145.800 MHz
The scheduled crewmember is Denis Matveev
Contact is go for Mon 2022-06-06 13:25 UTC (***)

ARISS Radio Status

Columbus Module radios:
IORS (Kenwood D710GA) – STATUS - Configured. Default mode set for cross
band repeater (145.990 MHz up {PL 67} & 437.800 MHz down).

* Radio to be powered OFF to support COL experiment on May 26. OFF about
08:15, ON about 10:55 UTC
* Radio to be powered OFF to support Progress 79 undocking on June 01. OFF
May 31 about 18:15, ON June 01 about 10:40 UTC
* Radio to be powered OFF to support Progress 81 docking on June 03. OFF
June 03 about 18:15, ON June 04 about 09:55UTC
* Radio to be powered OFF to support COL experiment on June 07. OFF about
10:45, ON about 14:50 UTC

Capable of supporting USOS scheduled voice contacts, packet and voice
repeater ops.

Service Module radios:
IORS (Kenwood D710GA) – STATUS - Not Active. Default mode set for packet
operations (145.825 MHz up & down)

* Radio to be powered OFF to support Progress 79 undocking on June 01.

* Radio to be powered OFF to support Progress 81 docking on June 03.

Capable of supporting ROS scheduled voice contacts, packet, SSTV and voice repeater ops.

The latest information on the operation mode can be found at https://www.ariss.org/current-status-of-iss-stations.html

The latest list of frequencies in use can be found at https://www.ariss.org/contact-the-iss.html

[ANS thanks Charlie Sufana, AJ9N, one of the ARISS operation team mentors, for the above information]

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W3IPA: DM42 vacation planned for Jul 30- Aug 6th will be on FM passes vacation style. I will be close to DM41 so might be able to work a gridline. Will post more updates closer to that week!

N8MR: EN 57,67,56 8/6 through 8/13. More to come as date gets closer.

Major Roves:

AD0HJ Eastern Iowa Rove: Time for Mitch to activate several new satellite grid squares and green up some more #GridMaster maps. Next trip is planned for grids EN30/31/32/33/40/41/42/43 between June 2nd and June 5th. More information soon

[ANS thanks Paul Overn, KE0PBR, AMSAT rover page manager, for the above information]

Hamfests, Conventions, Maker Faires, and Other Events

AMSAT Ambassadors provide presentations, demonstrate communicating through amateur satellites, and host information tables at club meetings, hamfests, conventions, maker faires, and other events.

Upcoming “How to Work the “Easy” Satellites” talks are scheduled …

WARA – Orange County CA – June 11

Think a 90-minute lively, informative, and fun “How to Work the Easy Satellites” Zoom presentation would be appropriate for your convention or club? Always included are overviews of the ARRL, AMSAT, and ARISS. And pre-presentation questions are solicited and welcome.

Send an email or call Clint Bradford, K6LCS.

Conventions

+ HamXposition
August 27-28, 2022
Marlborough, MA
https://hamxposition.org/

+ 2022 Rocky Mountain ARRL Division Convention
October 7, 2022 – October 9, 2022
Event Center at Archer
3921 Archer Pkwy
Cheyenne, Wyoming 82007
https://wyhamcon.org/site

[ANS thanks Paul Overn, KE0PBR, AMSAT Events page manager, for the above information]

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+ Congratulations to Paul, N1PEB, on earning AMSAT GridMaster Award #44!

+ An M17 digital voice signal was successfully transmitted through the QO-100 wideband transponder on May 25, 2022. A video of the transmission can be found at https://www.youtube.com/watch?v=cSBgDoIGMGM (Thanks to G4GUO)

+ QO-100's narrowband transponder now has a new multimedia beacon using fast data transmission in a 2.7 khZ passband. See http://dd1us.de/Downloads/Manual%20HSModem%20rev%202.03.pdf for details (Thanks to AMSAT-DL)

Join AMSAT today at https://launch.amsat.org/

In addition to regular membership, AMSAT offers membership to:

* Societies (a recognized group, clubs or organization).
* Primary and secondary school students are eligible for membership at one-half the standard yearly rate.
* Post-secondary school students enrolled in at least half time status shall be eligible for the student rate for a maximum of 6 post-secondary years in this status.
* Memberships are available for annual and lifetime terms.

Contact info [at] amsat.org for additional membership information.

73 and remember to help Keep Amateur Radio in Space!

This week's ANS Editor,

Paul Stoetzer, N8HM
n8hm at amsat dot org